

AMENDMENTS TO THE CLAIMS

1-38. (cancelled)

39. (Currently Amended) A reproducing apparatus for reproducing an information signal representing data read out from an information media from an information carrier having a wobbled groove formed along a track, wherein the wobbled groove ~~is modulated with an information signal in such a way that the wobbled groove~~ contains positive marks and negative marks, and wherein at least one ~~one or more~~ of the positive marks ~~is are~~ used for indicating one of a logical “0” ~~["1"]~~ and ~~or~~ “1” ~~["0"]~~ and at least one ~~one or more~~ of the negative marks ~~is are~~ used for indicating the other one of a logical “0” and ~~or~~ “1”, respectively, said reproducing apparatus comprising:

an input terminal operable to receive the information signal a signal read from the information carrier;

a detector operable to detect the positive marks and the negative marks from the information signal, and output positive mark signals and negative mark signals;

a generator operable to generate 1s and 0s according to the positive mark signals and the negative mark signals; and

a converter operable to convert said the 1s and 0s produced from said generator to an address signal.

40. (Currently Amended) A reproducing apparatus according to claim 39, wherein a logical “1” is represented by at least one of the positive marks and a logical “0” is represented by at least one of the negative marks.

41. (Currently Amended) A reproducing apparatus according to claim 40, wherein said detector comprises a high pass filter operable to ~~detect a steeper inclination~~ output a signal, and a comparator operable to compare ~~a~~the signal output from said high pass filter with a predetermined level.

42. (Currently Amended) A reproducing apparatus according to claim 40, wherein said generator generates 1s and 0s according to a plurality of the positive mark signals and a plurality of the negative mark signals.

43. (Currently Amended) A reproducing apparatus according to claim 42, wherein said detector comprises a high pass filter operable to ~~detect a steeper inclination~~ output a signal, and a comparator operable to compare ~~a~~the signal output from said high pass filter with a predetermined level.

44. (Currently Amended) A reproducing apparatus according to claim 39, wherein said generator generates 1s and 0s according to a plurality of the positive mark signals and a plurality of the negative mark signals.

45. (Currently Amended) A reproducing apparatus according to claim 44, wherein said detector comprises a high pass filter operable to ~~detect a steeper inclination~~ output a signal, and a comparator operable to compare ~~a~~the signal output from said high pass filter with a predetermined level.

46. (Currently Amended) A reproducing apparatus according to claim 39,
wherein said detector comprises a high pass filter operable to ~~detect a steeper~~
~~inclination~~output a signal, and a comparator operable to compare ~~a~~the signal output from
said high pass filter with a predetermined level.